KUNAL

kunalsingh2703@gmail.com | +91 8235324567

Linkedin | GitHub | HackerRank | LeetCode

EDUCATION

University of Petroleum and Energy Studies (UPES)   Dehradun, Uttrakhand
Computer Science & Engineering Bachelor of Technology   July 2020 - July 2024
CGPA: 8.58

EXPERIENCE

Visvesvaraya National Institute of Technology (VNIT Nagpur) | Summer Internship   Nagpur, Maharashtra |
June 2023 - July 2023

- Implemented a smart irrigation system using Machine Learning, optimizing plant watering decisions with sensor data.
- Achieved significant improvements in water usage efficiency and agricultural practices through automation.

PwC | Trainee   Mar 2023 - July 2023

- Completed the PwC Analytics Insights Launchpad program, gaining comprehensive training in Python, Oracle RDBMS, and Data Engineering techniques.
- Attained proficiency in Python, Oracle RDBMS, and Data Engineering through participation in the rigorous PwC Analytics Insights Launchpad training program.

F13 Technologies | Summer Internship   July 2022 - Aug 2022

- Conducted a case study on McDonald's home delivery service, focusing on their usage of AWS technologies such as EC2, ECR, Elasticache, RDS, S3 and ELB to optimize their operations and improve customer satisfaction.

LetsGrowMore | Summer Internship   June 2022 - July 2022

- Developed a tool to convert images from RGB to grayscale and create pencil sketches, using the cv2 library in Python.
- Developed a tool to extract text from articles and perform text analysis, using Python and Excel.

Ethical Edufabrica Pvt. Ltd | Trainee   Sep 2021 - Oct 2021

- Developed a user-friendly banking management system with secure login/signup interfaces, a dashboard for personal details, and transaction processing capabilities.
- Implemented the back-end logic using Python and SQL to manage user accounts and perform transactions.

SKILLS

Programming Languages:	Python, C++, C, HTML, CSS
Libraries/Frameworks:	Git/GitHub, Docker , YOLO, Jenkins, VS Code
Tools / Platforms:	AWS, VMware Workstation,
Databases:	MySQL

PROJECTS / OPEN-SOURCE

Cloud Provider Advisor | Link   *Python, AWS, GCP, Microsoft Azure, HTML, CSS, JS, Django, API, GitHub*

- Designed and implemented a system that utilizes APIs to retrieve virtual machine instance data from different cloud providers, stores it in a database, and presents it to users through a user-friendly interface, enabling them to search and compare virtual machines based on features like memory, storage, and price.

Parking Spot Assigner with License Plate Detector | Link   *Python, Yolov7, Tesseract OCR, openCV, MySQL*

- Designed an automated license plate recognition system using computer vision and machine learning techniques, successfully extracting license plate numbers from vehicles.

Custom Compiler | Link   *Python, C++, Tkinter*

- Designing and implementing a comprehensive compiler in Python and C++, integrating lexical, syntax, semantic analysis, and code generation algorithms to produce executable machine code from source files.

Carbon Footprint Calculator | Link   *HTML, CSS, JS, AWS, Docker, Jenkins*

- Developing a carbon footprint calculator web application and implementing a robust CI/CD pipeline using Jenkins, Git, AWS, and Docker for efficient and automated software development, testing, and deployment.

CERTIFICATIONS

- Python (Basic) - **HackerRank**
- SQL (Basic) - **HackerRank**
- SQL (Intermediate) - **HackerRank**
- Microsoft Certified: Azure Fundamentals - **Microsoft**
- AWS Partner: AWS Cloud Practitioner Essentials - **Amazon Web Services Training and Certification**
- AWS Partner: Accreditation (Technical) - **Amazon Web Services Training and Certification**
- AWS Partner: Accreditation (Business) - **Amazon Web Services Training and Certification**
- AWS Partner: Cloud Economics Accreditation - **Amazon Web Services Training and Certification**

HONORS & AWARDS

Received official copyright certification from the Government of India for the custom compiler project.

I've also volunteered at Paridhi NGO, conducting surveys and data analysis to support community initiatives.

Got the opportunity to present the project Parking Spot Assigner with License Plate Detector at IBM ICE 2023.

Also we got the opportunity to showcase the project Parking Spot Assigner with License Plate Detector at UPES Project Expo 2022.

Technical Core Committee Member of UPES-CSI (Computer Society of India).

Participate in Hackathon 5.0 organised by UPES-CSI (Computer Society of India).